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## Patent Abstracts of Japan

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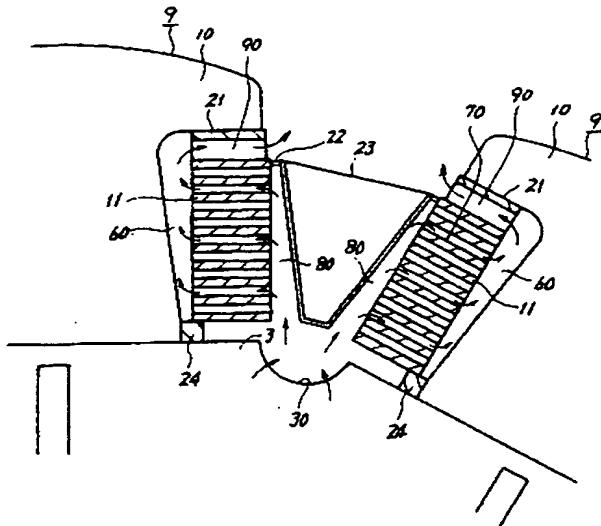
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APPLICANT : MITSUBISHI ELECTRIC CORP;

INVENTOR : KATAOKA KENJI;

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TITLE : ROTOR FOR ROTARY ELECTRIC MACHINE



ABSTRACT : PURPOSE: To increase the cooling efficiency of a field coil by providing vent passages between a pole core and a field coil, and between the layers of the field coil, providing a partition member at the upper end of the field coils, and providing an exhaust passage at the field coil side of the top washer.

CONSTITUTION: A first vent passages 60 which have a large cooling air outlet are provided between a field core 10 and a field coil 11, a second vent passages 70 are provided between the layers of the field coil 11, a partition member 23 forming the third vent passage 80 which is supported to the upper end of the field coil 11 and has large cooling air inlet is provided between the field coils 11, and an exhaust passage 90 which has a long axial length is provided at the field coil 11 side of the top washer 21. The pressure of cooling air is enhanced by a partition piece 22 and the member 22 to be flowed from the third vent passage 80 to the second vent passage 70 and to the first passage 60, and the flowing velocity of the cooling air passed through the first and second passages 60, 70 can be accelerated. Further, the ventilating area of the cooling air to the coil 11 via the passage 70 can be remarkably increased.

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